Subject Index of Vol. 38

adaptive mesh refinement, 223
axisymmetrical contraction flows, 183

bifurcation, 289
boundary element method, 101

combined finite element/streamline integration method, 183
configuration tensor, 93
constitutive equation, 273
creeping motion, 31
Currie fluid, 289

differential models, 93
dilute polymer solution, 159
dissipation, 81
drag, 113
drag reduction, 313

elongational flow, 159
energy storage, 81
explicitly elliptic momentum equation, 223
extensional viscosity, 159
extrusion, 1

finite element method, 101
first normal stress difference, 43
flow of polymeric liquids, 127
free-surface flow, 1

heat transfer, 313

inelastic flows, 101

jet thrust method, 159

K–BKZ fluid, 289

LDPE melts, 183
linear filtering, 247

macromolecules, 127
Maxwell fluid, 137
mechanical degradation, 127
multi-mode Giesekus model, 183

nearly-viscometric flow, 113
nematic polymers, 273
non isothermal rheology, 81
non-linear instability, 247
numerical mapping, 247
numerical simulation, 1

orifice flow, 159
orthogonal rheometer, 289

parameter continuation, 289
partly hyperbolic flow, 137
pipe flow, 313
polymer solutions, 313
pullout, 43

solution spinning, 43
sphere motion, 31
stream-tube method, 1

temperature equation, 81
turbulence, 313

upwind differencing, 247

viscoelastic flow, 137, 223
viscoelastic fluids, 81
viscoelasticity, 1, 43, 113
viscoplastic medium, 31
vortex enhancement, 183
vortex size, 43

wall effect, 31
well-posed problems, 93

Subject Index of Vol. 38

adaptive mesh refinement, 223
axisymmetrical contraction flows, 183

bifurcation, 289
boundary element method, 101

combined finite element/streamline integration method, 183
configuration tensor, 93
constitutive equation, 273
creeping motion, 31
Currie fluid, 289

differential models, 93
dilute polymer solution, 159
dissipation, 81
drag, 113
drag reduction, 313

elongational flow, 159
energy storage, 81
explicitly elliptic momentum equation, 223
extensional viscosity, 159
extrusion, 1

finite element method, 101
first normal stress difference, 43
flow of polymeric liquids, 127
free-surface flow, 1

heat transfer, 313

inelastic flows, 101

jet thrust method, 159

K–BKZ fluid, 289

LDPE melts, 183
linear filtering, 247

macromolecules, 127
Maxwell fluid, 137
mechanical degradation, 127
multi-mode Giesekus model, 183

nearly-viscometric flow, 113
nematic polymers, 273
non isothermal rheology, 81
non-linear instability, 247
numerical mapping, 247
numerical simulation, 1

orifice flow, 159
orthogonal rheometer, 289

parameter continuation, 289
partly hyperbolic flow, 137
pipe flow, 313
polymer solutions, 313
pullout, 43

solution spinning, 43
sphere motion, 31
stream-tube method, 1

temperature equation, 81
turbulence, 313

upwind differencing, 247

viscoelastic flow, 137, 223
viscoelastic fluids, 81
viscoelasticity, 1, 43, 113
viscoplastic medium, 31
vortex enhancement, 183
vortex size, 43

wall effect, 31
well-posed problems, 93

Author Index of Vol. 38

André, P., 1
Atapattu, D.D., 31

Bowen, P.J., 113
Braun, H., 81
Bulters, M.J.H., 43

Chhabra, R.P., 31
Clermont, J.-R., 1

Dai, R.X., 289
Davies, A.R., 113

Finlayson, B.A., 223
Fraenkel, L.E., 137
Friedrich, C., 81

Gong, H., 247
Güçeri, S.I., 247

Hasegawa, T., 159
Hulsen, M.A., 93, 183

Maffettone, P.L., 273
Marrucci, G., 273
Matthys, E.F., 313
Meijer, H.E.H., 43

Nakamura, H., 159

Rajagopal, K.R., 289
Rao, R.R., 223

Szeri, A.Z., 289

Tanner, R.I., 101

Uhlherr, P.H.T., 31

Van der Zanden, J., 183

Walters, K., 113

Yarin, A.L., 127